



TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	117- 0272 - TV
Client/ Sequence /Town/Premises Numbers	205 / 1 / 117 / 48 and 50
Date Issued	April 26, 2003
Expiration Date	April 26, 2008

Corporation:

Yale University, Central / Science Campus

Premises Location:

Central Power Plant, 18 Ashmun Street, New Haven, Connecticut 06520

Name of Responsible Official and Title:

Robert L. Culver, Vice President, Finance and Administration

All the following attached pages, 2 through 64, are hereby incorporated by reference into this Title V Operating Permit.

JANE K. STAHL
Arthur J. Rocque, Jr.
Commissioner

April 26, 2003
Date

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LIST OF ACRONYMS

<i>Acronym</i>	<i>Description</i>
acfm	Actual cubic feet per minute
ASC	Actual Stack Concentration
BACT	Best Available Control Technology
BAM	Bureau of Air Management
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CP/OP	Construction Permit/Operating Permit
CPB	Central Power Boilers
CPG	Central Power Generators
CTG	Control Technology Guideline
DEP	Department of Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emission Unit
ERC	Emission Reduction Credit
EPA	Environmental Protection Agency
FLER	Full load emission rate
GEMU	Grouped Emission Unit
gph	Gallons per hour
gpm	Gallons per minute
GPSC	General Permit Spray Coating
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MMCF	Million Cubic Feet
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSR	New Source Review
PM	Particulate Matter
ppm	Parts per million basis
ppmvd	Parts per million, dry volumetric basis
PSB	Pierson Sage Boilers
PSG	Pierson Sage Generators
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies

LIST OF ACRONYMS, Continued

<i>Acronym</i>	<i>Description</i>
RMP	Risk Management Plan
SCB	Science Center Boilers
SCG	Science Center Generators
SIC	Source Identification Code
SIP	State Implementation Plan
TOC	Total Organic Carbon
tph	Tons per hour
tpy	Tons per consecutive twelve months
TSP	Total Suspended Particulate
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Title V Operating Permit

All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: University – school of higher education

Primary SIC: 8221

Other SIC:

Facility Mailing Address: 2 Whitney Avenue, 5th Floor, New Haven, CT 06520-8297

Telephone Number: (203) 432 – 9077

B. PREMISES DESCRIPTION

The Yale University Central Science Campus located in New Haven, CT consists of a large number of buildings used for higher education, research and development laboratories, student housing, and administrative offices. Many of these buildings are interconnected, and many are heated and cooled by steam-generating plants owned by Yale. However, some buildings have their own source of heat and hot water, with either gas or oil-fired furnaces and water heaters.

The Central Power Plant was reconstructed in 1998 and 1999 during which time three new gas turbines with duct burner heat recovery steam generators, three 1500kW generators and one 100,000 lb/hour steam boiler were installed. Units 1 and 3 at the Pierson Sage Power Plant were retrofitted with low NO_x burners that operate on natural gas and are equipped with flue gas recirculation controls to provide emergency steam generating capacity.

The Central and Pierson Sage power plant equipment is permitted and has an overall NO_x limit set at 121.5 tons per year.

In addition to the above-mentioned emissions units, the premises also contains three small spray booths. Two of these spray booths are operated pursuant to RCSA Section 22a-174-3b and the third is registered under the general permit for spray coating. These units have the required particulate control filters with sufficient removal efficiencies. The premises also has several emergency generators on site.

In addition to sources that have applicable requirements, this premises contains many small sources that typically have no applicable requirements. Such sources are often replaced, removed or added to the premises. To include such sources this permit lists four generic grouped emission unit descriptions for boilers with less than 10 MMBtu/hour heat input and which combust liquid fuel or natural gas, cooling towers, underground storage tanks with a capacity of 50,000 gallons or less and emergency engines that have no applicable requirements or which are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas.

Two operating scenarios are defined within this permit to allow the separation of applicable requirements between different fuel types. SOS1 is for the standard operation of all emissions units with combustion sources burning liquid fuel and AOS1 for combustion sources burning natural gas.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1. In addition to the sources that have applicable requirements, the premises contain many small sources that typically have no applicable requirements. Such sources are often replaced, removed or added to the premises. This permit lists four generic grouped emission unit descriptions. One for boilers with less than 10 MMBtu/hour heat input and which combust liquid fuel or natural gas (GEMU2), cooling towers (GEMU3), underground storage tanks with a capacity of 50,000 gallons or less (GEMU4), and emergency engines that have no applicable requirements or which are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas (GEMU5). The permittee shall maintain lists of such sources and update such lists as sources are replaced, added or removed and shall provide such lists to the commissioner upon request.

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number
EMU1	Nebraska boiler, Model No. NS-F-89	Low NOx burner w/Flue gas recirculation	Permit 117-0210
EMU2	Pierson Sage, Bigelow Boiler #1 Model	Low NOx burner	Permit 117-0339
EMU3	Pierson Sage, Bigelow Boiler #3 Model	Low NOx burner	Permit 117-0311
EMU4	GE Gas Turbine #1 Model No. PGT-5/M 6.1MW	CO Catalyst, Low NOx Combustor and SCR	Permit 117-0204
EMU5	GE Gas Turbine #2 Model No. PGT-5/M 6.1MW	CO Catalyst, Low NOx Combustor and SCR	Permit 117-0205
EMU6	GE Gas Turbine #3 Model No. PGT-5/M 6.1MW	CO Catalyst, Low NOx Combustor and SCR	Permit 117-0206
EMU7	Mitsubishi Diesel Generator #1 Model No. S16R-PTA	SCR and CO Catalyst	Permit 117-0207
EMU8	Mitsubishi Diesel Generator #2 Model No. S16R-PTA	SCR and CO Catalyst	Permit 117-0208
EMU9	Mitsubishi Diesel Generator #3 Model No. S16R-PTA	SCR and CO Catalyst	Permit 117-0209

Section II: Emissions Units Information

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION, Continued			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number
EMU10	Devilbiss Proclean Spray Booth	None	GPSC 117-0231
EMU11	300kW Onan Emergency Diesel Gen.Set Model # NTA855A-G2	None	Permit 117-0354
GEMU1	EMU4, EMU5, and EMU6	See above	See above
GEMU2	Boilers with a heat input capacity of less than 10 MMBtu/hour and which burn liquid fuel or natural gas.	None	None
GEMU3	Cooling towers.	None	None
GEMU4	Underground Storage tanks with a capacity of 50,000 gallons or less.	None	None
GEMU5	Emergency Engines that have no applicable requirements or are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas.	None	None
GEMU6	EMU7, EMU8, and EMU9	See above	See above

Section II: Emissions Units Information

The permittee shall be allowed to operate under the following standard operating scenarios (SOS) and alternative operating scenarios (AOS) without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises.

TABLE II.A.2: EMISSIONS UNIT IDENTIFICATION, SOS AND AOS		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
SOS1	EMU1, EMU4, EMU5, EMU6, EMU7, EMU8, EMU9, EMU10, EMU11, (GEMU1), (GEMU2), (GEMU3), (GEMU4), (GEMU5), (GEMU6)	All emissions units associated with SOS1 shall be operated in accordance with applicable registration terms and conditions, and in accordance with best management practices, while combustion sources operate combusting liquid fuels.
AOS1	EMU1, EMU2, EMU3, EMU4, EMU5, EMU6, EMU7, EMU8, EMU9, EMU10, EMU11, (GEMU1), (GEMU2), (GEMU3), (GEMU4), (GEMU5), (GEMU6)	All emissions units associated with AOS1 shall be operated in accordance with applicable registration terms and conditions, and in accordance with best management practices, while combustion sources operate combusting natural gas.

NOTE: All sources on the premises do not have to operate under the same operating scenario. Sources may operate under SOS1 and AOS1 simultaneously.

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

A. EMISSIONS UNIT 1

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No. NS-F-89				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Annual Fuel Usage	<p>A total maximum heat input of 1,130,040 MMBtu per consecutive twelve-month period. The following equation establishes the corresponding maximum fuel consumption for EMU1:</p> <p>Maximum natural gas consumption(MMCF) per consecutive twelve months = $[1,130.04 - 0.000150 * \text{the number of gallons of Residual oil consumed during the same consecutive twelve months (Shall not exceed 2,638,000 gallons)}]$</p>	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas and fuel oil consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 3.86 lb./hour, 2. Less than or equal to 0.0317 lb./MMBtu, and 3. Less than or equal to 6.35 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel oil consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.387 lb./hour, 2. Less than or equal to 0.003 lb./MMBtu, and 3. Less than or equal to 1.695 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 30.5 lbs./hour, 2. Less than or equal to 0.30 lbs./MMBtu, and 3. Less than or equal to 50.2 tons per year 	Permit # 117-0210 Section 22a-174-22(j)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) for NOx. 2. The permittee shall comply with the 0.30 lbs./MMBtu NOx limit on a 24 hour rolling average basis. 3. The permittee shall maintain daily records of fuel oil consumption and hours of operation. 4. The permittee shall comply with the requirements of Section 22a-174-22. 5. The permittee shall maintain an annual balance of 10 (ten) ERCs to insure annual compliance with of Section 22a-174-22 requirements. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 5.16 lb./hour, 2. Less than or equal to 0.04 lb./MMBtu, and 3. Less than or equal to 22.6 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM) for NOx. 2. The permittee shall comply with the NOx limit on a 24 hour rolling average basis. 3. The permittee shall maintain daily records of natural gas consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx	<ol style="list-style-type: none"> 1. Less than or equal to 66.0 lb./hour, 2. Less than or equal to 0.541lb./MMBtu, 3. Less than or equal to 108.5 tons per year, and 4. Less than or equal to 0.50% sulfur by weight (dry basis) in residual fuel oil 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption and hours of operation. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 0.129 lb./hour, 2. Less than or equal to 0.001 lb./MMBtu, 3. Less than or equal to 0.565 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.365 lb./hour, 2. Less than or equal to 0.003 lb./MMBtu, and 3. Less than or equal to 0.60 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel oil consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.361 lb./hour, 2. Less than or equal to 0.0028 lb./MMBtu, and 3. Less than or equal to 1.582 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 9.12 lb./hour, 2. Less than or equal to 0.075 lb./MMBtu, and 3. Less than or equal to 15.91 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall maintain daily records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 3.251 lb./hour, 2. Less than or equal to 0.0252 lb./MMBtu, and 3. Less than or equal to 14.24 tons per year 	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Nebraska Boiler, Model No.NS-F-89, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0210	<p><u>Monitoring and Testing Requirements</u></p> <p>Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u></p> <p>Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)). 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

B. EMISSIONS UNIT 2

Table III.B: EMISSIONS UNIT 2 (EMU2) - Pierson Sage Boiler No.1 (Natural Gas Only)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	Annual Fuel Usage	Maximum natural gas consumption per consecutive twelve months = 118.8 million cubic feet	Permit # 117-0339	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</p> <p>2. See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.B: EMISSIONS UNIT 2 (EMU2) - Pierson Sage Boiler No.1 (Natural Gas Only), Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.260 lb./hour, 2. Less than or equal to 0.0076 lb./MMBtu, and 3. Less than or equal to 0.34 tons per year 	Permit # 117-0339	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.B: EMISSIONS UNIT 2 (EMU2) - Pierson Sage Boiler No.1 (Natural Gas Only), Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 1.53 lb./hour, 2. Less than or equal to 0.045 lb./MMBtu, and 3. Less than or equal to 2.02 tons per year 	Permit # 117-0339	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII </p>
AOS1	SOx	<ol style="list-style-type: none"> 1. Less than or equal to 0.030 lb./hour, 2. Less than or equal to 0.0009 lb./MMBtu, 3. Less than or equal to 0.040 tons per year 	Permit # 117-0339	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII </p>

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Table III.B: EMISSIONS UNIT 2 (EMU2) - Pierson Sage Boiler No.1 (Natural Gas Only), Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.250 lb./hour, 2. Less than or equal to 0.0073 lb./MMBtu, and 3. Less than or equal to 0.330 tons per year 	Permit # 117-0339	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.B: EMISSIONS UNIT 2 (EMU2) - Pierson Sage Boiler No.1 (Natural Gas Only), Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 3.78 lb./hour, 2. Less than or equal to 0.111 lb./MMBtu, and 3. Less than or equal to 4.99 tons per year 	Permit # 117-0339	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0339	<p><u>Monitoring and Testing Requirements</u> Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)). 2. See Section VII

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C. EMISSIONS UNIT 3

Table III.C: EMISSIONS UNIT 3 (EMU3) - Pierson Sage Boiler No.3 (Natural Gas Only)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	Annual Fuel Usage	Maximum natural gas consumption per consecutive twelve months = 67,654,000 cubic feet	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</p> <p>2. See Section VII</p>

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Table III.C: EMISSIONS UNIT 3 (EMU3) - Pierson Sage Boiler No.3 (Natural Gas Only), Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.382 lb./hour, 2. Less than or equal to 0.0076 lb./MMBtu, and 3. Less than or equal to 1.67 tons per year 	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 2.44 lb./hour, 2. Less than or equal to 0.0485 lb./MMBtu, and 3. Less than or equal to 1.64 tons per year 	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: EMISSIONS UNIT 3 (EMU3) - Pierson Sage Boiler No.3 (Natural Gas Only),Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	SOx	<ol style="list-style-type: none"> 1. Less than or equal to 0.0302 lb./hour, 2. Less than or equal to 0.0006 lb./MMBtu, 3. Less than or equal to 0.0203 tons per year 	Permit # 117-0311	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.277 lb./hour, 2. Less than or equal to 0.0055 lb./MMBtu, and 3. Less than or equal to 0.186 tons per year 	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.C: EMISSIONS UNIT 3 (EMU3) - Pierson Sage Boiler No.3 (Natural Gas Only),Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 7.42 lb./hour, 2. Less than or equal to 0.148 lb./MMBtu, and 3. Less than or equal to 4.99 tons per year 	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0311	<p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u></p> <p>The permittee shall provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)).</p>

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D. GROUPED EMISSIONS UNIT 1

Note that hourly, ppm, and Ton per Year limits are on an individual per turbine basis. Also note, compliance with permit limits for NO_x shall be based on ppm_{dv} @15% O₂ .

TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Annual Fuel Usage	<p>A total maximum heat input of 1,489,200 MMBtu per turbine/duct burner per consecutive twelve-month period. The following equation establishes the corresponding maximum fuel consumption per turbine/duct burner (EMU4, EMU5 and EMU6):</p> <p>Maximum natural gas consumption(MMCF) per consecutive twelve months = $[1,489.2 - 0.000139 * \text{the number of gallons of no.2 fuel oil consumed during the same consecutive twelve months (Shall not exceed 5,356,835 gallons)}]$</p>	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas and fuel oil consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>

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TABLE IIID: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 5.40 lb./hour, 2. Less than or equal to 0.0536 lb./MMBtu, and 3. Less than or equal to 11.80 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel oil consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 1.46 lb./hour, 2. Less than or equal to 0.0204 lb./MMBtu, and 3. Less than or equal to 6.37 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 4.00 lb./hour, 2. Less than or equal to 6 ppmvd @15% O₂ 3. Less than or equal to 0.0289 lb./MMBtu, and 4. Less than or equal to 8.76 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall stack test to measure NOx emissions once every 5 years, at least 6 months before the expiration of this permit. 2. The permittee shall maintain daily records of fuel oil consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 1.67 lb./hour, Less than or equal to 6 ppmvd @15% O₂ 2. Less than or equal to 0.0286 lb./MMBtu, and 3. Less than or equal to 7.31 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall stack test to measure NOx emissions once every 5 years, at least 6 months before the expiration of this permit. 2. The permittee shall maintain daily records of natural gas consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 8.84 lb./hour, 2. Less than or equal to 0.052 lb./MMBtu, and 3. Less than or equal to 19.40 tons per year 4. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption and hours of operation. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 0.170 lb./hour, 2. Less than or equal to 0.0010 lb./MMBtu, 3. Less than or equal to 0.745 tons per year, and 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption and hours of operation.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 4.25 lb./hour, 2. Less than or equal to 0.0372 lb./MMBtu, and 3. Less than or equal to 9.31 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall stack test for VOC once every 5 years, at least 6 months before the expiration of this Title V permit. 3. The permittee shall maintain daily records fuel oil consumption and hours of operation. <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 2.45 lb./hour, 2. Less than or equal to 0.0223 lb./MMBtu, and, 3. Less than or equal to 10.70 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall stack test for VOC once every 5 years, at least 6 months before the expiration of this Title V permit. 3. The permittee shall maintain daily records of natural gas consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 1.33 lbs/hour, 2. Less than or equal to 0.0147 lbs/MMBtu, and 3. Less than or equal to 2.92 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall stack test for CO once every 5 years, at least 6 months before the expiration of this Title V permit. 3. The permittee shall maintain daily records of fuel oil consumption and hours of operation. <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 1.00 lbs/hour, 2. Less than or equal to 0.136 lbs/MMBtu, and 3. Less than or equal to 4.38 tons per year 	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall stack test for CO once every 5 years, at least 6 months before the expiration of this Title V permit. 3. The permittee shall maintain daily records of natural gas consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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TABLE III.D: GROUPED EMISSIONS UNITS 1 (GEMU1) - 3 GE Gas Turbines with Duct Burners, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Ammonia	10 ppm	Permits # 117-0204, 117-0205 and 117-0206	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall stack test to measure ammonia emissions once every five years, at least 6 months before the expiration of this permit. 2. The permittee shall maintain daily records of ammonia consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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E. GROUPED EMISSIONS UNIT 6

Note that hourly, ppm, and Ton per Year limits are on an individual per generator basis.

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Annual Fuel Usage	Maximum diesel fuel consumption per consecutive twelve months = 295,000 gallons per diesel generator	Permit # 117-0207, 117-0208, and 117-0209	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)]</p> <p>2. See Section VII</p>

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TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 1.36 lb./hour, 2. Less than or equal to 0.0889 lb./MMBtu, and 3. Less than or equal to 1.70 tons per year 	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall maintain daily records of diesel fuel consumption. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 5.30 lb./hour, 2. Less than or equal to 0.323 lb./MMBtu, and 3. Less than or equal to 6.63 tons per year 	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall maintain daily records of diesel fuel consumption. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 0.847 lb./hour, 2. Less than or equal to 0.0516 lb./MMBtu, 3. Less than or equal to 1.06 tons per year, and 4. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel 	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption and hours of operation. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.253 lb./hour, 2. Less than or equal to 0.0154 lb./MMBtu, and, 3. Less than or equal to 0.316 tons per year 	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall maintain daily records of diesel fuel consumption. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 1.01 lbs/hour, 2. Less than or equal to 0.0616 lbs/MMBtu, and 3. Less than or equal to 1.26 tons per year 	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee has demonstrated compliance with lbs/hour and lbs/MMBtu limits through stack testing. 2. The permittee shall maintain daily records of diesel fuel consumption. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: GROUPED EMISSIONS UNITS 6 (GEMU6) - 3 Mitsubishi Diesel Fired Generators, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Ammonia	10 ppm	Permits # 117-0207, 117-0208 and 117-0209	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall stack test to measure ammonia emissions once every five years, at least 6 months before the expiration of this permit. 2. The permittee shall maintain daily records of ammonia consumption and hours of operation. <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] <p>See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

F. EMISSION UNIT 10

Table III.F: EMISSION UNIT 10 (EMU10) General Permit Spray Booth No. GPSC 117-0231	
Pollutants or Process Parameters	Compliance Demonstration Requirements
VOC and PM-10 Emissions during SOS1 and AOS1 conditions	<p><u>Limitations or Restrictions</u> Emissions of VOC or HAP from the subject surface coaters shall not exceed 5 TPY during any consecutive 12 months. [GPSC Section 5(a)(1)] Emissions of PM-10 from the subject surface coaters shall not exceed 3 TPY during any consecutive 12 months. [GPSC Section 5(a)(3)]</p> <p><u>Monitoring and Testing Requirements</u> The permittee shall calculate the VOC and PM-10 emissions emitted by the surface coaters using a material balance of the VOC and PM-10 in the paint. [RCSA Section 22a-174-33(j)(1)(K)(ii)]</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records of the monthly and annual emissions of each pollutant emitted for the surface coaters in accordance with Section VII.F. of this permit and RCSA Section 22a-174-33(o)(2), and shall submit such records to the Commissioner upon request. [GPSC Section 5(b)(1)(B) & (C)] Annual emissions shall be calculated each calendar month by adding the current calendar month's emissions to those of the previous eleven months. [GPSC Section 5(b)(2)]</p> <p><u>Reporting Requirements</u> If the Commissioner requests any information, pertinent to the authorized activity or to compliance with this general permit or with the permittee's approval of registration, the permittee shall provide such information within 30 days of such request. [GPSC Section 5(d)(1)]</p> <p>The permittee shall report in writing to the commissioner any violation of the conditions of the general permit, or of an approval of registration, within five days of learning of such violation. [GPSC Section 5(e)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSION UNIT EMU10 General Permit Spray Booth No. GPSC 117-0231, Continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Coating Usage during SOS1 and AOS1 conditions	<p><u>Limitations or Restrictions</u></p> <p>Emissions of VOC at a premises from the authorized activity, including emissions from the cleanup of any article associated with any such operation, shall be in compliance with all applicable limitations provided in RCSA Section 22a-174-20, Control of Organic Compound Emissions. [GPSC Section 5(a)(2)]</p> <p>No owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may operate a coating application system subject to RCSA Section 22a-174-20(s) that emits volatile organic compounds from any coating in excess of:</p> <ol style="list-style-type: none"> 0.52 kg/l (4.3 lb/gal) of coating, excluding water and exempt volatile organic compounds listed on Table 1(a)-1 in RCSA Section 22a-174-1, delivered to a coating applicator that applies a clear coat; 0.42 kg/l (3.5 lb/gal) of coating, excluding water and exempt volatile organic compounds listed on Table 1(a)-1 in RCSA Section 22a-174-1, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to 90 degrees C (194 degrees F); 0.42 kg/l (3.5 lb/gal) of coating, excluding water and exempt volatile organic compounds listed on Table 1(a)-1 in RCSA Section 22a-174-1, delivered to a coating applicator that applies extreme performance coatings; 0.36 kg/l (3.0 lb/gal) of coating, excluding water and exempt volatile organic compounds listed on Table 1(a)-1 in RCSA Section 22a-174-1, delivered to a coating applicator for all other coatings, adhesives, fillers or sealants and coating application systems. [RCSA Section 22a-174-20(s)(3)] <p>Notwithstanding the requirements of this subsection, an owner or operator may use, in the aggregate, up to fifty-five (55) gallons of coatings that exceed the emission limitations set forth in subparagraph (3)(a) through (3)(e), inclusive, of this section at such premise for any twelve (12) consecutive months, provided such owner or operator maintains records of such coatings in accordance with subsection 20(aa) of this section. [RCSA Section 22a-174-20(s)(10)]</p> <p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall monitor the coating usage by the surface coaters using purchasing records. [GPSC Section 5(b)(1)(H)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSION UNIT EMU10 General Permit Spray Booth No. GPSC 117-0231, Continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Coating Usage during SOS1 and AOS1 conditions, continued	<p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep daily records of all coatings and diluents used for the surface coaters in accordance with Section VII.F. of this permit and RCSA Section 22a-174-33(o)(2), and shall submit such records to the Commissioner upon request. The records must contain the information required below:</p> <ol style="list-style-type: none"> Description of the coating including the coating name and the coating density in pounds per gallon; Volatile organic compound content by weight; Water and exempt volatile organic compound content by weight; Non-volatile content by volume and weight; Amount of each coating used in gallons; Total amount of diluent used for each coating in pounds and in gallons. [RCSA Section 22a-174-20(aa)(1)]
	<p>The permittee shall maintain the following monthly and annual records:</p> <ol style="list-style-type: none"> The aggregate amount, by volume, of each coating and solvent used each calendar month, and each consecutive twelve months. [GPSC Section 5(b)(1)(A)] Consecutive twelve months usage shall be calculated each calendar month by adding the current month's usage to those of the previous eleven months. [GPSC Section 5(b)(2)] With respect to each coating or solvent used, as applied: [GPSC Section 5(b)(1)(H)] <ol style="list-style-type: none"> the name and identification number; the VOC content, expressed in pounds per gallon; all material safety data sheets or technical data sheets; all records of purchasing, including without limitation purchase orders, invoices, and packing slips; and all disposal manifests, including amount and type of material removed from the premise for disposal.
	<p><u>Reporting Requirements</u></p> <p>If the Commissioner requests any information, pertinent to the authorized activity or to compliance with this general permit or with the permittee's approval of registration, the permittee shall provide such information within 30 days of such request. [GPSC Section 5(d)(1)]</p> <p>The permittee shall report in writing to the commissioner any violation of the conditions of the general permit, or of an approval of registration, within five days of learning of such violation. [GPSC Section 5(e)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSION UNIT EMU10 General Permit Spray Booth No. GPSC 117-0231, Continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Hazardous Air Pollutants (HAPs) emissions during SOS1 and AOS1 conditions	<p><u>Limitations or Restrictions</u></p> <p>The permittee shall ensure that the hazardous air pollutant emissions from each operation authorized comply with all applicable MASC limits under RCSA Section 22a-174-29, Tables 29-1, 29-2 and 29-3. A coating, solvent, thinner, or other compound used in an authorized operation, either for production or on a trial basis, which will emit a hazardous air pollutant may be utilized only if the permittee ensures that such emission complies with the applicable MASC. [GPSC Section 5(a)(4)]</p> <p><u>Monitoring and Testing Requirements</u></p> <p>The permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of each hazardous air pollutant (HAP) listed in Tables 29-1, 29-2 and 29-3 of RCSA Section 22a-174-29 that is emitted by this emission unit. The permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA Section 22a-174-33(j)(1)(K)(ii)]</p> <p>The MASC shall be calculated using the following equation (for discharge points ≤ 20 meters):</p> $\text{MASC} = \frac{.885 * \text{HLV}(x + 1.08v^{0.64})^{1.56}}{v}$ <p>where: x = 10 meters or the distance from the discharge point to the nearest property line whichever is greater v = the average actual flow rate (in cubic meters per second) HLV = the applicable hazard limiting value found in Tables 29-1, 29-2 and 29-3</p> <p>The ASC shall be calculated using the HAP's content in the material as applied (lb/gal) and the maximum consumption rate (gal/hr) as a worst case. This gives actual stack emissions in lb/hr which can be converted to g/m^3 using the following equation and the flow rate in acfm ($\text{ug/m}^3 = [\text{lb/hr} \times 453.6 \times 10^6 \text{ug/lb}]/[\text{acfm} \times 60 \text{ min/hr} \times 0.02832 \text{ m}^3/\text{ft}^3]$).</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSION UNIT EMU10 General Permit Spray Booth No. GPSC 117-0231, Continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Hazardous Air Pollutants (HAPs) emissions during SOS1 and AOS1 conditions, continued	<p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records of the ASC and MASC calculations that demonstrate compliance for each HAP listed in RCSA Section 22a-174-29 Tables 29-1, 29-2 & 29-3 emitted by this emission unit in accordance with Section VII.F. of this permit and RCSA Section 22a-174-33(o)(2), and shall submit such records to the Commissioner upon request. [GPSC Section 5(b)(D)]</p> <p><u>Reporting Requirements</u></p> <p>If the Commissioner requests any information, pertinent to the authorized activity or to compliance with this general permit or with the permittee's approval of registration, the permittee shall provide such information within 30 days of such request. [GPSC Section 5(d)(1)]</p> <p>The permittee shall report in writing to the commissioner any violation of the conditions of the general permit, or of an approval of registration, within five days of learning of such violation. [GPSC Section 5(e)]</p>

Section III: Applicable Requirements and Compliance Demonstration

G. EMISSIONS UNIT 11

Table III.G: EMISSIONS UNIT 11 (EMU11) - Onan 300 kW Model # NTA855A-G2 Emergency Engine (Diesel Fuel Only)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.293 lb./hr, 2. Less than or equal to 0.090 lb./MMBtu, and 3. Less than or equal to 0.022 tons per year 	Permit # 117-0354	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII </p>
SOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 9.08 lb./hr, 2. Less than or equal to 2.79 lb./MMBtu, and 3. Less than or equal to 0.68 tons per year 	Permit # 117-0354	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII </p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: EMISSIONS UNIT 11 (EMU11) - Onan 300 kW Model # NTA855A-G2 Emergency Engine, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx	<ol style="list-style-type: none"> 1. Less than or equal to 0.164 lb./hr 2. Less than or equal to 0.050 lb./MMBtu, 3. Less than or equal to 0.012 tons per year 4. Less than or equal to 0.05% sulfur by weight (dry basis) in residual fuel oil 	Permit # 117-0354	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.065 lb./hr 2. Less than or equal to 0.020 lb./MMBtu, and 3. Less than or equal to 0.005 tons per year 	Permit # 117-0354	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: EMISSIONS UNIT 11 (EMU11) - Onan 300 kW Model # NTA855A-G2 Emergency Engine , Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 1.24 lb./hr, 2. Less than or equal to 0.38 lb./MMBtu, and 3. Less than or equal to 0.092 tons per year 	Permit # 117-0354	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of diesel fuel consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
SOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0354	<p><u>Monitoring and Testing Requirements</u> Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (RCSA Section 22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u> Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA Section 22a-174-4(c)(1)).</p>

Section III: Applicable Requirements and Compliance Demonstration

H. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.H: PREMISES-WIDE GENERAL REQUIREMENTS		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Permitting Exemptions	RCSA §22a-174-3b	The permittee shall comply with all applicable requirements in RCSA §22a-174-3b for any source on the premises that the permittee elects to operate under these permit exemptions.
Annual Emission Statements	RCSA §22a-174-4	The permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA §22a-174-4(c)(1).
Emergency Episode Procedures	RCSA §22a-174-6	The permittee shall comply with the procedures for emergency episodes as specified in RCSA §22a-174-6.
Public Availability of Information	RCSA §22a-174-10	The public availability of information shall apply, as specified in RCSA §22a-174-10.
Prohibition against Concealment/ circumvention	RCSA §22a-174-11	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA §22a-174-11.
NO _x	RCSA §22a-174-22	1) The permittee shall comply with the 0.25 lbs./MMBtu NO _x emission rate in RCSA §22a-174-22 for all residual oil fired boilers. 2) The permittee shall demonstrate compliance with the requirements of RCSA §22a-174-22(j).
Emission Fees	RCSA §22a-174-26	The permittee shall pay an emission fee in accordance with RCSA §22a-174-26(d).

Section IV: Compliance Schedule

NOT APPLICABLE

TABLE IV: COMPLIANCE SCHEDULE				
Emissions units	Applicable regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- A.** This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
- C.** Odors: The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to a nuisance odor beyond the property boundary of the premises in accordance with the provisions of RCSA Section 22a-174-23. Failure to comply with this requirement may result in the assessment of civil penalties and/or the issuance of a State Order.
- D.** Noise: The permittee shall operate in compliance with the Department of Environmental Protection's regulations for the control of noise (RCSA 22a-69-1 through 22a-69-7.4 inclusive).
- E.** Hazardous Air Pollutants (HAPs): The permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA Section 22a-174-29.
- F.** Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by C.G.S. Section 22a-174(f)
- G.** Fuel Sulfur Content: The permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS Section 22a-21a.

Section VI: Permit Shield

NO PERMIT SHIELD HAS BEEN GRANTED.

In accordance with Section 22a-174-33(k) of the RCSA, a permittee complying with the conditions of this permit shall be deemed in compliance with any applicable requirements identified in Table VI below as of the date of issuance. Also, in accordance with Section 22a-174-33(k) of the RCSA, a permittee complying with the conditions of this permit shall be deemed exempt from any non-applicable requirements identified below as of the date of issuance.

This permit shall not alter or affect the following:

- A. the provisions of section 303 of the Clean Air Act, including the authority of the Administrator under the Act;
- B. the liability of an owner or operator of a Title V source for any violation of applicable requirements prior to or at the effective date of a Title V permit;
- C. the applicable requirements of the acid rain program under 40 CFR Part 72; and
- D. the ability of the Administrator or Commissioner to obtain information from the owner or operator of a Title V source.

TABLE VI: PERMIT SHIELD				
Regulated Pollutants	Emissions Units	Applicable Requirement or Non-Applicable Requirement Descriptions	Applicable Regulatory References	*Applicability

*For Applicability, use AR to indicate Applicable Requirement and NR for Non- Applicable Requirement

Section VII: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA § 22a-174-33(b)]

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]

If an authorization pursuant to Section 22a-174-2a(a) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-2a(a)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-2a(a)(2) of the RCSA.

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D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;

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7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA.

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K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

V. TRANSFERS [RCSA § 22a-174-2a(g)]

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No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

W. REVOCATION [RCSA § 22a-174-2a(h)]

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182(c) of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.